

ADDENDUM NO. 4

CITY OF HIALEAH

**CITY HALL
RE-ROOFING
501 PALM AVE.
HIALEAH, FLORIDA**

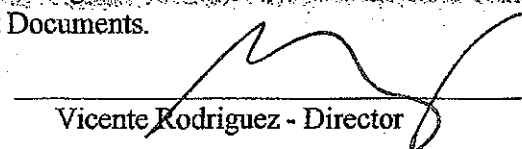
January 14, 2016

TO ALL CONCERNED

The original Contract Documents, for the Project entitled **CITY OF HIALEAH – CITY HALL RE-ROOFING BID NO. 2015/16-3230-00-009** is hereby amended as noted in this **Addendum No. 4**.

This **Addendum No. 4** consists of 1 Typed Pages, 0 Sketches, 6 Attachment and 0 Drawings. All other items and conditions of the original Contract Documents shall remain unchanged. This Addendum shall become a part of the Contract Documents.

Approved for issue:


Vicente Rodriguez - Director

Date: January 14, 2016

ACKNOWLEDGEMENT

Receipt of this **Addendum No. 4** shall be acknowledged in the space provided on the **ADDENDUM RECEIPT FORM (ARF)** (copy attached) now a part of the Contract Documents faxed immediately to City of Hialeah @ (305) 687-2642, and submitted with sealed bids.

IN THE CONTRACT DOCUMENTS:

CLARIFICATION:

1. The VersiFlex PVC FRS Membrane Roofing system submitted Versico Roofing Systems on January 13, 2016, is approved as an equal. Please see attached letter from the manufacturer.

RE-ROOFING 2015/16-3230-00-009

**PAGE 1 OF 1
END OF ADDENDUM NO. 4**



BUILDING VALUE

Wednesday, January 13, 2016

Vincente Rodriguez
City of Hialeah – Construction & Maintenance

**Re: Hialeah City Hall
Hialeah, FL**

To Whom It May Concern,

As Confirmation, this letter shall acknowledge the proposed roof assembly for warranty consideration by Versico.

The assembly is as follows;

Deck:	Structural concrete deck. If residual or unexposed asphalt is present on the deck surface, it must be primed with CCW 702 or Cav-Grip Primer.
Insulation:	Install minimum 1.5" thick Tapered Versico MP-H Polyisocyanurate insulation (4'x4' boards) adhered with DASH DC Adhesive at 12" on center bead spacing in the field and 6" on center bead spacing in the perimeters and corners.
Membrane:	Install 60-mil VersiFlex PVC FRS Membrane fully adhered with PVC Bonding Adhesive.

After completion of the installation, upon request, an inspection shall be conducted by a Field Service Representative of Versico to determine the membrane roofing system has been installed according to Versico's published specifications and details applicable at the time of bid. Upon final acceptance by Versico, a 20-year warranty can be issued. Unless purchased or supplied through Versico, please note that performance, integrity, and impact of products by others is not included under coverage of the Versico Total System Warranty

If you have any questions or require additional information, please contact our office.

Sincerely,

A handwritten signature in cursive script that reads 'Ariel M. Andrejev'.

Ariel M. Andrejev
Design Analyst
Versico

Cc: Patrick Mulligan



BUILDING VALUE

January 12, 2016

City of Hialeah
501 Palm Ave
Hialeah, FL 33010

**RE: Re-roofing Hialeah City Hall
Hialeah FL**

City of Hialeah,

Versico submits, for your approval, an equivalent PVC single-ply roofing system alternative on the referenced project. Versico's VersiFlex WHITE PVC membrane roofing system meets the specified roofing system currently listed in the specification.

We have enclosed our VersiFlex WHITE PVC Technical Data Bulletin for your review and acceptance on the above referenced project.

Versico, a division of Carlisle Construction Materials Incorporated, has been supporting architectural and building owner communities for nearly 20 years. This support system includes designing and recommending the most effective roofing solutions for the building envelope. Visit our website for the most current specifications and details, case studies, code approvals and more – www.versico.com.

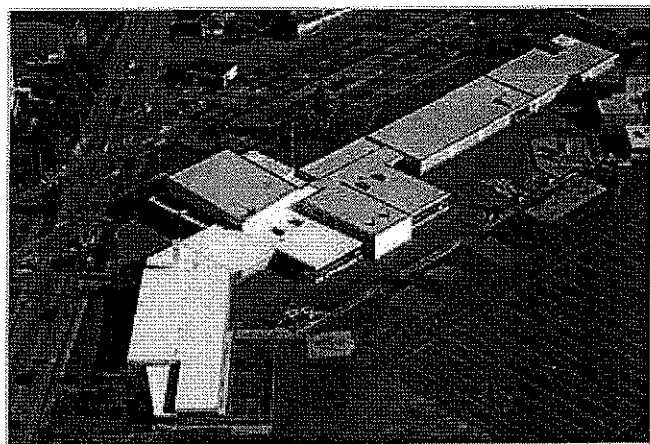
For questions or inquiries regarding VersiFlex WHITE PVC, or any other Versico single-ply roofing system, contact me at 717-960-4038.

Sincerely,

A handwritten signature in black ink that reads 'Patrick Mulligan'. The signature is fluid and cursive, with the first name 'Patrick' and last name 'Mulligan' clearly distinguishable.

Patrick Mulligan
Versico Sales Representative
patrick.mulligan@versico.com

VERSIFLEECE® FRS PVC MEMBRANES



Overview

VersiFleece FRS PVC membranes are manufactured using a state-of-the-art extrusion process for complete scrim encapsulation. The PVC is reinforced with a high-strength fiberglass scrim and enhanced with fleece, creating a very tough, durable and versatile sheet that is ideal for re-roofing or new construction projects. Available in total sheet thicknesses of 115- and 135-mils, this product can be used in fully adhered and mechanically attached applications.

Versico's VersiFlex® PVC formulation delivers excellent weatherability, flexibility and toughness, and the fiberglass reinforcing scrim provides additional dimensional stability to the sheet. In addition to providing a built-in separation layer for rough concrete decks or existing asphaltic-based roofing systems, the fleece backing enhances the membrane's puncture resistance.

Features and Benefits

- Available in thicknesses of 115 and 135 mils
- Roll Sizes: 115-mil = 10' x 80'
135-mil = 10' x 65'
- Superior wind uplift resistance due to the bond between fleece and adhesive
- 67% fewer seams than Modified Bitumen systems (using 10'-wide sheets)
- Wide window of weldability

- Fleece reinforcement adds toughness, durability and enhanced puncture resistance
- Fiberglass reinforcing scrim provides excellent breaking strength
- Low-volatility plasticizer
- Good chemical resistance to acids, bases, restaurant oils, fats, greases and acid rain
- ENERGY STAR®-qualified, California Title 24 compliant, can contribute to LEED® (Leadership in Energy and Environmental Design) credits.

Installation

Adhered Roofing System

Insulation is mechanically attached or adhered with DASH or FAST™ Adhesive to the roof deck. Refer to respective product data sheets or Versico specifications and details for complete installation information.

REVIEW VERSICO'S SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

Precautions

1. Sunglasses that filter out ultraviolet light are strongly recommended since the membrane's white surface is highly reflective to sunlight. Roofing technicians should dress appropriately and wear sunscreen.
2. Smooth surfaces may promote slippery conditions due to frost and ice buildup. Exercise caution during cold conditions to prevent falls.
3. Care must be exercised when working close to a roof edge when the surrounding area is snow-covered, as the roof edge may not be clearly visible.
4. Use proper stacking procedures to ensure sufficient stability of the materials.
5. Exercise caution when walking on wet membrane. Membranes may be slippery when wet.

Supplemental Approvals, Statements

VersiFleece FRS PVC membranes meet or exceed the requirements of ASTM D4434 Standard Specification for Poly (Vinyl Chloride) Sheet Roofing. VersiFleece PVC is classified as Type III as defined by ASTM D4434.



VERSICO
ROOFING SYSTEMS

A SINGLE SOURCE FOR SINGLE-PLY ROOFING

Versico, PO Box 1289, Carlisle, PA 17013
Tel: 800.992.7663 Fax: 717.960.4036 Web: www.versico.com

TECHNICAL DATA BULLETIN

RADIATIVE PROPERTIES FOR ENERGY STAR®, COOL ROOF RATING COUNCIL (CRRG), AND LEED

Physical Property	Test Method	White PVC
ENERGY STAR – E-903 Initial solar reflectance	Solar Spectrum Reflectometer	0.87
ENERGY STAR – E-903 Solar reflectance after 3 years	Solar Spectrum Reflectometer (uncleaned)	0.61
CRRG – Initial solar reflectance	ASTM C1549	0.87
CRRG – Solar reflectance after 3 years	ASTM C1549 (uncleaned)	0.61
CRRG – Initial thermal emittance	ASTM C1371	0.95
CRRG – Thermal emittance after 3 years	ASTM C1371 (uncleaned)	0.86
LEED – Thermal emittance	ASTM E408	0.94
Solar Reflectance Index (SRI)	ASTM E1980	110

TYPICAL PROPERTIES AND CHARACTERISTICS

Physical Property	ASTM D4434 Requirement	115-mil	135-mil
Thickness Over Scrim, in. (mm)	0.016 min (0.40)	0.025 typ. (0.635)	0.030 typ. (0.762)
Breaking Strength (MD x CD), lbf (N) ASTM D751 proc. A	200 min (35)	450 x 400	500 x 450
Elongation break of reinforcement (MD x CD), % ASTM D751 grab method	15 min	70 x 100	70 x 100
Seam Strength, min. ASTM D751 grab method (% of breaking strength)	>75	PASS	PASS
Tearing Strength (CD), lbf (N) ASTM D751 proc. B, 8 in. x 8 in.	45 (200)	60	60
Low Temperature Bend, no cracks 5x ASTM D2136	PASS	PASS (-40°C)	PASS (-40°C)
Linear Dimensional Change, % ASTM D1204, 6 hours at 176°F (MD x CD)	± 0.5 max	0.36 x 0.00 typ.	0.36 x 0.00 typ.
Ozone Resistance, no cracks 7X ASTM D1149, 100 pphm, 168 hrs	PASS	PASS	PASS
Water Absorption Resistance, mass % ASTM D570 166 hours at 158°F water	± 3.0 max.	2.0 typ.	2.0 typ.
Field Seam Strength, lbf/in. (kN/m) ASTM D1876 tested in peel	No requirement	25 (4.4) min. 60 (10.5) typ.	25 (4.4) min. 60 (10.5) typ.
Water Vapor Permeance, Perms ASTM E96 proc. B	No requirement	0.10 max 0.05 typ.	0.10 max 0.05 typ.
Puncture Resistance - Dynamic, J (ft-lbf) ASTM D5635	20 (14.7)	PASS	PASS
Puncture Resistance - Static, lbf (N) ASTM D5602	33 (145)	PASS	PASS
Xenon-Arc Resistance, no cracks/crazing 10x ASTM G155 0.35 W/m² at 340nm, 63°C B.P.T. 12,600 kJ/m² total radiant exposure 10,000 hours	PASS	PASS	PASS
Properties After Heat Aging ASTM D3045, 56 days at 176°F	90 min.	90 min.	90 min.
Breaking strength, % retained	90 min.	90 min.	90 min.
Elongation reinf., % retained			

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

LEED INFORMATION

Pre-consumer Recycled Content	5%
Post-consumer Recycled Content	0%
Manufacturing Location	Greenville, IL
Solar Reflectance Index	White: 110



Advancement
of Construction
Technology

SUBSTITUTION REQUEST

(During the Bidding Phase)

Project: Re-roofing- Hialeah City Hall Substitution Request Number: _____
From: Versico Roofing Systems
To: City of Hialeah Date: 1/12/16
A/E Project Number: _____
Re: Roof replacement Contract For: _____

Specification Title: Roof System Description: Products
Section: 075419 Page: 5 Article/Paragraph: 2.02

Proposed Substitution: Fully adhered VersiFlex white PVC single ply system
Manufacturer: Versico Address: 1295 Ritner Highway Phone: 717-960-4038
Trade Name: VersiFlex PVC Roofing membrane Model No.: 60 mil white

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: Patrick Mulligan
Signed by: *Patrick Mulligan*
Firm: Versico
Address: 1295 Ritner Highway Carlisle PA 17013
Telephone: 717-960-4038

A/E REVIEW AND ACTION

- ☐ Substitution approved - Make submittals in accordance with Specification Section 01330.
☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01330.
☐ Substitution rejected - Use specified materials.
☐ Substitution Request received too late - Use specified materials.

Signed by: _____ Date: _____

Supporting Data Attached: ☐ Drawings ☒ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____

ADDENDUM RECEIPT FORM

CITY OF HIALEAH

**CITY HALL
RE-ROOFING
501 PALM AVE
HIALEAH, FLORIDA**

CONTRACTOR'S NAME _____

ADDRESS _____

PHONE NO. _____ **FAX NO.** _____

CONTACT NAME _____ **SIGNATURE** _____

THE BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING ADDENDUM BY SIGNING AND DATING BELOW: COPY OF THIS FORM MUST BE FAXED AND IMMEDIATELY TO CITY of HIALEAH @ (305) 687-2642.

ADDENDUM

SIGNATURE

DATE

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RE-ROOFING 2015/16-3230-00-009

ARF